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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/019,571	12/31/2001	Etsuro Ogata	04853.0086 7887			
22852	7590 04/26/2	006	EXAMINER			
	N, HENDERSON,	LI, RUIXIANG				
LLP 901 NEW Y	ORK AVENUE, NW	ART UNIT	PAPER NUMBER			
WASHING	TON, DC 20001-44	1646				
				DATE MAILED: 04/26/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
Office Action Summary		10/019,57	1	OGATA ET AL.				
		Examiner		Art Unit				
		Ruixiang Li	i	1646				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)🖂	Responsive to communication(s) filed on 2	28 February 200	<u>16</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1,3-10,12-14,18,23,24 and 26-30</u> 4a) Of the above claim(s) <u>4-8,12,13,18,23 and 26-30</u> Claim(s) is/are allowed. Claim(s) <u>1,3,9,10,14 and 26-30</u> is/are rejected to. Claim(s) is/are objected to. Claim(s) are subject to restriction and 26-30	and 24 is/are wi	thdrawn from conside	ration.				
Applicati	on Papers							
10)	The specification is objected to by the Exar The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by th	accepted or b)[o the drawing(s) be orrection is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF	• •			
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment	•							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948	3)	4) Interview Summary Paper No(s)/Mail Da					
3) 🛛 Infom	nation Disclosure Statement(s) (PTO-1449 or PTO/St r No(s)/Mail Date <u>04/04/2006</u> .	B/08)	5) Notice of Informal P 6) Other:)-152)			

DETAILED ACTION

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Status of Application, Amendments, and/or Claims

Applicants' amendment filed on 02/28/2006 has been entered. Claims 3, 9, and 27 have

been amended. Claims 1, 3, 9, 10, 14, and 26-30 are currently under consideration.

The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office Action.

Withdrawn Objections and/or Rejections

The rejection of claims 1, 3, 9, 10, and 14 under 35 U.S.C. 102(b) as being anticipated

by Grunfeld et al. (WO 96/39184, December 12, 1996) has been withdrawn in view of

Applicants' argument.

The objection of claim 9 has been withdrawn in view of amended claim.

Information Disclosure Statement

The information disclosure statement filed on 04/04/2006 has been considered by the

Examiner and a signed copy of the substitute form PTO-1449 is attached to the office

action.

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Claim Rejections Under 35 USC § 102

The rejection of claims 26-30 under 35 U.S.C. 102(b) as being anticipated by Grunfeld

et al. (WO 96/39184, December 12, 1996) is maintained.

Beginning at page 8 of Applicants' response filed on 02/28/2006, Applicants argue that

Grunfeld et al. do not disclose or teach a human antibody and do not claim a human

antibody.

Applicants' argument has been fully considered, but is not deemed to be persuasive

because Grunfeld et al. clearly disclose a human antibody. For example, at page 5,

lines 29-37, Grunfeld et al. states "the polyclonal or monoclonal antibodies may be

raised in rabbits, mice, or other animals or tissue cultured cells or can be products of

cells of human origin. They may also be produced of recombinant DNA technology

either in a form identical to that of the native antibody or as chimeric molecules,

constructed by recombination of antibody molecules of man and animal origins or in

other forms chosen to make the antibodies most suitable for use in therapy".

Moreover, Grunfeld et al. teach the therapeutic use of a human antibody (from the

bottom of page 1 to top of page 2). For example, beginning at page 1, line 35, Grunfeld

et al. state: "Murine and human monoclonal antibodies directed against the core

lipopolysaccharide of the endotoxin have been reported to exert protection during

Gram-negative bacterial sepsis in animals". Beginning at page 2, line 12, Grunfeld et al.

state: "In addition, human monoclonal antibodies to *p. aeruzinosa exotoxin A* and exoenzyme S have been described as useful for this purpose".

Furthermore, there is no requirement for a prior art to claim the subject matter under the patent law.

Accordingly, the teachings of Grunfeld et al. anticipate claims 26-30.

Claim Rejections under 35 U.S.C. §103 (a)

- (i). The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- (ii). Claims 1, 3, 9, 10, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grunfeld et al. (WO 96/39184, December 12, 1996) in view of Sato et al. (US2002/0165363 A1, Publication Date: November 7, 2002; earliest priority date: May 15, 1997).

Grunfeld et al. teach treatment of systematic inflammatory response syndrome, including septicemia (1st paragraph of page 1; line 2 of page 3), with an anti-PTHrP antibody (Abstract; lines 5-26 of page 1). The septicemia, which is listed in canceled

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claim 11 as one of the diseases mediated by PTHrP-cytokine (IL-6), necessarily reduces quality of life (QOL) of patients.

Grunfeld et al. fail to explicitly teach treating septicemia with a humanized antibody.

Sato et al. teach a therapeutic agent for cachexia, an anti-PTHrP antibody, including a humanized #23-57-137-1 antibody (see, e.g., claims 5-6; [0013]; and Example 4), which inhibits the binding of PTHrP to its receptor (see, e.g., [0010]). Treatment of cachexia with the humanized #23-57-137-1 anti-PTHrP antibody increased survival rate (Fig. 1) and reduced the loss of body weight in mice with cachexia (Fig. 3). The humanized #23-57-137-1 antibody, which is the same antibody disclosed in the instant application (see page 38 of the instant specification), inhibits the binding of PTHrP to PTHrP type 1 receptor.

Therefore, It would have been obvious to one having ordinary skill in the art at the time the invention was made to treat septicemia by administering to a human patient a humanized #23-57-137-1 antibody with a reasonable expectation of success. One would have been motivated to do so because the antigenicity of the humanized antibody against a human body is reduced as taught by Sato et al. ([0045] and [0051]).

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Claim Objections

The objection to claims 9, 10, 28, and 29 are maintained because they recite non-

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elected subject matter (species). Since independent claims 1 and 26 are drawn to a

method of treatment of septicemia with a PTHrP antibody, PTH-cytokine cascade does

not appear to be related to septicemia. Thus, only PTHrP-cytokine cascade should be

recited in claims 9 and 28. In addition, it is suggested that only the cytokines that are

involved in septicemia be listed in claims 9, 10, 28, and 29. Appropriate correction is

required.

Conclusion

No claims are allowed.

Advisory Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ruixiang Li whose telephone number is (571) 272-0875.

The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00

pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brenda Brumback, can be reached on (571) 272-0961. The fax number for

the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

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applications may be obtained from either Private PAIR or Public PAIR. Status

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information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, please contact the Electronic

Business Center (EBC) at the toll-free phone number 866-217-9197.

Ruiciang L. Ruixiang Li, Ph.D.

Primary Examiner

RUIXIANG LI, PH.D. PRIMARY EXAMINER

April 22, 2006